

## ZINC ALKALINE BATTERY

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**Applicant:** TOSHIBA BATTERY

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- international: **H01M2/16; H01M6/06; H01M10/24; H01M2/16; H01M6/04; H01M10/24; (IPC1-7): H01M2/16; H01M6/06; H01M10/24**

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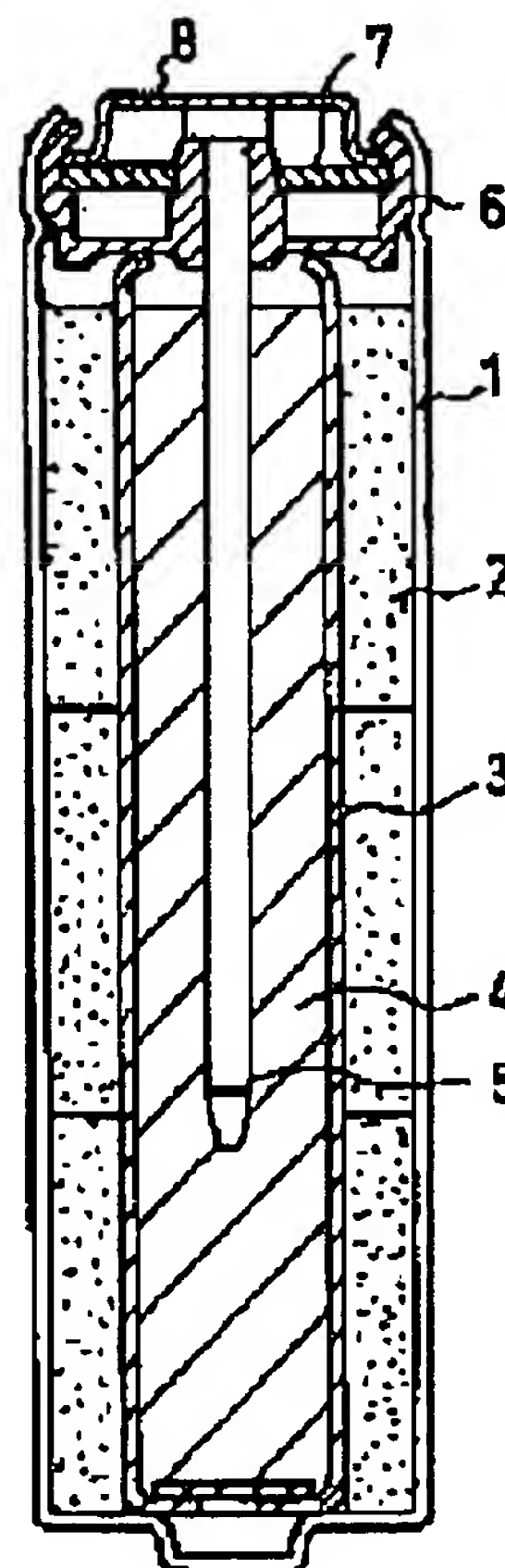
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### Abstract of JP11111256

**PROBLEM TO BE SOLVED:** To improve long-term stability and reliability by using nonwoven fabric containing aromatic polyamide fiber and polyvinyl alcohol fiber or also nonwoven fabric containing cellulose fiber as a separator.

**SOLUTION:** Aromatic polyamide fiber can reduce a thin hole diameter of nonwoven fabric by beating processing. Since it is also excellent in alkali resistance and hardly degrades even if it is stored over a long period, it can hold a separating function of a positive electrode active material and a negative electrode active material, and can restrain a short-circuit phenomenon inside of a battery. However, since mechanical strength is weak and workability at battery manufacturing time is bad only by the aromatic polyamide fiber, the mechanical strength is secured by mixing polyvinyl alcohol fiber. Since liquid preserving performance is not sufficient in nonwoven fabric composed of only the aromatic polyamide fiber and the polyvinyl alcohol fiber by a kind of battery, for example, in an alkaline dry battery, it is more desirable to also mix cellulose fiber.



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